**Additions to Unit 5, Notes Packet 1: Cell Cycle and Division**

Ms. Ottolini, Pre-AP Biology, 2012-2013

1. How is the modern cell theory different from the traditional cell theory?
2. How is the rate of cell division different in various types of human body cells?
3. Describe the speed of red blood cell division.
4. How are unicellular organisms different from multicellular organisms?
5. What are stem cells and how are they different from specialized body cells (ex: nerve cells, muscle cells, skin cells)?
6. Where are stem cells found?
7. Provide an example of TWO specialized cells and explain how their unique structures contribute to their functions.
8. Define each of the levels of cellular organization given in the chart, and provide an example of each.

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| **Level** | **Definition** | **Example** |
| Cell |  |  |
| Tissue |  |  |
| Organ |  |  |
| Organ System |  |  |
| Organism |  |  |